

Universal Distribution Frame (UDF) for Industrial Environments

The Panduit Universal Distribution Frame is engineered to rapidly deploy and protect an industrial Ethernet network between the enterprise and plant floor. Consistent design, copper/fiber cable management, and power features minimize engineering and installation time resulting in faster implementation. The Universal Distribution Frame allows for most DIN mount industrial Ethernet switches to be deployed on the plant floor. With UL Type 4/4X/12 and IP66 ratings the enclosures provide reliability and high performance, as an integral component of the end-to-end solution for Industrial Network and allows easy deployment of cabling subsystem TIA-1005.



Key Features	Benefits
Universal design	Works with most DIN mount industrial Ethernet switches, providing design flexibility
Switch ready solution	Reduces time required for planning, designing, procurement, and installation resulting in simpler specification and up to 50% faster implementation
Pre-fabricated build	Pre-installed front and rear equipment rails, back panel with cable management, and wall mount option with secure front and rear access
Pre-engineered power infrastructure	Terminal blocks wired, tested, and validated for power distribution
Included redundant power supplies	Minimize the risk of equipment failure for improved network reliability
Optional maintenance free Ultracapacitor 100W UPS	Prevents rebooting of switch during short power outages and includes networked remote management which monitors Hold Time and Lifetime from the plant floor or office, saving time and money
Defined equipment locations and cable routings	Incorporate Panduit® developed best practices in connectivity, cable management, wiring, and grounding to ensure network reliability
Detailed installation guide	Provides easy, repeatable design instructions helping to ensure consistency and saving time on the job-site
Panduit Certification PlusSM System Warranty*	25 year standards based performance warranty that applies to all registered links and/or channels in an eligible structural cabling system installation

Applications

The Panduit Pre-Configured UDF is engineered to deploy and protect Industrial Ethernet switches on the factory floor in an industrial network. Consistent design, equipment placement, cable management, and power features minimize engineering and installation time resulting in faster implementation.

With UL Type 4/4X/12 and IP66 ratings, the enclosures provide reliability and high performance, as an integral component of the end-to-end solution for Industrial Networks and allows easy deployment of cabling subsystem TIA-1005. For more information, visit pages.panduit.com/UDF.html.

*To be eligible for the Certification Plus System Warranty, the system must be registered with Panduit, and must meet all requirements, including without limitation, the requirement that it be installed by a Panduit ONESM Enterprise Structured Cabling Partner or an Industrial Automation Infrastructure Partner who has been accredited with the Deploy Competency and meets all Partner ONE Partner requirements. Details of additional requirements may be found at <https://www.panduit.com/content/panduit/en/legal-information/Certification-Plus-System-Warranty.html>.

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Part Number	Description
Pre-Configured UDF	
12RU: ZDF24	See part table on page three
26RU: ZDF48	See part table on page three
DIN Mount Tiers for Industrial Switch Expansion	
ZDINS24	Without UPS
ZDINS25	With UPS
UVIB	Universal voltage isolation barrier
Panduit Products, Ordered Separately	
UTP28SP0.5MBU	Small diameter patch cords
STP28X0.5MBU	Small diameter shielded patch cords
CJ688TGBU	Mini-Com® Modules, Cat 6, RJ45
CJS6X88TGBUY	Mini-Com® Shielded Modules, Cat 6A, RJ45
PUR6004BU-UY	Cat 6 UTP Copper Cable, Riser
FAP12WAQDLCZ FAP6WAQDLCZ	LC Opticom® OM3/OM4 FAP
FX2ERLNLNSNM001 FX2ERLNLNSNM002	Opti-Core® Fiber Optic Patch Cords, LC to LC MM, Duplex
FODRX24Y	Opti-Core® OM3 Fiber Optic Distribution Cable, MM, Riser
FLCDMCXAQY	LC OptiCam® OM3/OM4 Duplex Fiber Optic Connectors
CNB4K	StructuredGround™ Bonding Cage Nuts and Screws, Green, #12-24
CNWS1224-C	Cage Nut and Screws #12-24
Other Equipment, Ordered Separately	
T200216G100 T200226G100	nVent T-Series Compact AC Unit
HF0516414 HG0500404	nVent Fan and Exhaust Grille Kit
N280416G100	nVent SpectraCool Narrow Compact AC Unit
HF0916414 HG0900404	nVent Fan and Exhaust Grille Kit

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Part Number	Enclosure Type	Switch Ready Deployment	Power Options
12RU Enclosure			
ZDF24-S24	4/12 Steel	(2) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies
ZDF24-624	4X 316 SS	(2) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies
ZDF24-S25	4/12 Steel	(2) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies and one maintenance free UPS
ZDF24-625	4X 316 SS	(2) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies and one maintenance free UPS
ZDF24-S45	4/12 Steel	(4) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies and two maintenance free UPSs

Part Number	Enclosure Type	Switch Ready Deployment	Power Options
26RU Enclosure			
ZDF48-S64	4/12 Steel	(6) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies
ZDF48-664	4X 316 SS	(6) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies
ZDF48-S65	4/12 Steel	(6) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies and one maintenance free UPS
ZDF48-625	4X 316 SS	(6) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies and one maintenance free UPS
ZDF48-S85	4/12 Steel	(8) user defined industrial switches with max power of 42 watts at 24 Vdc	Redundant power supplies and two maintenance free UPSs

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT US/CANADA
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
cs-la@panduit.com
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
cs-aus@panduit.com
Phone: 61.3.9794.9020

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Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300



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